NEW MEXICO
STATE LAND OFFICE
When we Take Care of our Land, Our Land Takes Care of us!

LIMS

(Land Information Management System)

LIMS Project Status Update
Science, Technology and Telecommunications Committee
10/28/2014
Presenting: Sunalei Stewart, Deputy Commissioner
Martin Davis, CIO

Agency Mission

- Generate optimum revenues and exercise sound financial management for the benefit of the beneficiaries while helping to create jobs for New Mexicans and maintaining and enhancing the health of State Trust Lands.
- The Land Office is a leader in the development of renewable energy resources.
- The Land Office is recognized as the nation's model for state land management balanced with sustainable economic growth.
- Manage our natural and cultural resources for the long-term benefit of our future generations.

The NMSLO manages 13 million subsurface and 8.5 million surface acres held in Trust for the beneficiaries of New Mexico.

Approximately $2 Billion Revenue over past 3 years saving the average New Mexico household about $850 in taxes yearly

Business Problem

- Oil and Natural Gas Administration and Revenue Database (ONGARD) was initially developed 20 years ago by the Tri-Agencies to manage sub-surface resources such as oil & natural gas.
- The State Land Office uses ONGARD to manage both subsurface (mineral estate) and surface land. Surface leasing functionality was added on two years after implementation.
- ONGARD cannot fully accommodate surface leasing due to limitations in the data model and system design.
- Land grid information is incomplete and based on a nominal 40 acres.
- Split estates ownership and beneficiaries cannot be handled
- Critical surface land management functions are absent.
- Land is currently represented in text-based format rather than GIS.
- User interface is cumbersome and inefficient.
- Changes in ONGARD are costly and risky.

LIMS Scope

- Replace current surface and minerals land management, leasing and related financial functionality with a multi-tier web application
- Integrate with ESRI GIS and IBM FileNet Enterprise Content Management System
- Provide Bi-directional interfaces with ONGARD for shared data
- Replace 100-year old Agency paper Tract Books with the Digital Tract Book component of LIMS
- Perform back-file conversion of Agency Tract Books
    - 244,800 pages representing 32,500 active leases and 80,850 subdivisions
- Migration of approximately 20-25% of ONGARD functionality to LIMS
- Non oil-and-gas revenue stream contributed **$38M** in FY14 and **$34M** in FY13 of NMSLO revenue for beneficiaries
    - 161 Active Mineral Leases
    - 836 Active Commercial Leases
    - 23,068 Active Agriculture and Right of Way Leases

LIMS Appropriation History

Amount Certified with DoIT/PCC	$5,687,651
Remaining Appropriation not Certified	$1,112,349
Total Appropriated Amount	$6,800,000

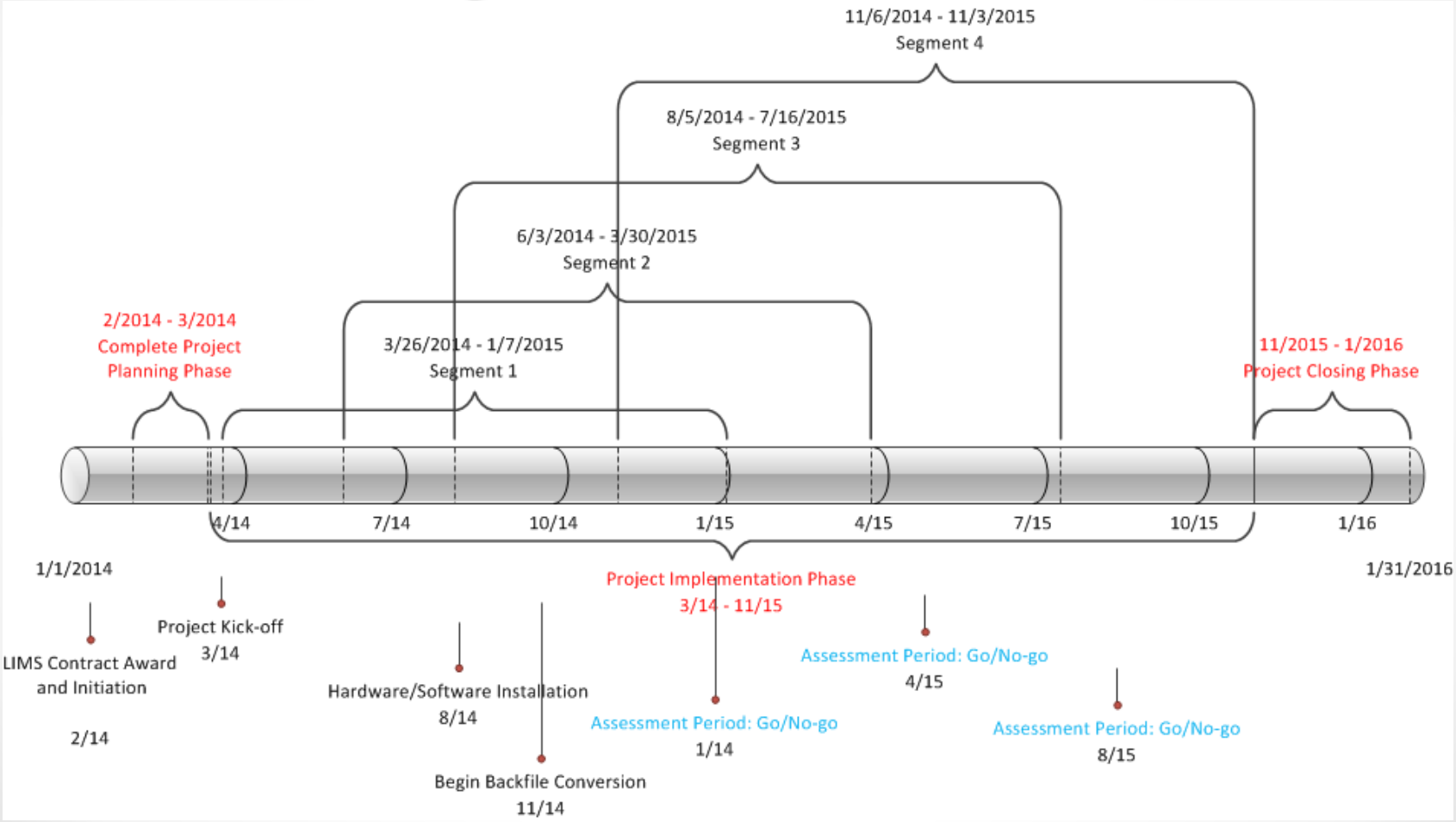
APPROPRIATION HISTORY (INCLUDE ALL FUNDING SOURCES, E.G. FEDERAL, STATE, COUNTY, MUNICIPAL LAWS OR GRANTS)		
Fiscal Year	**Amount**	**Funding Source and Appropriation language**
FY11-FY12	$1,668.00	Laws of 2010, 2nd Special Session, Chapter 6, Section 7, Subsection 10 & 11, Land Maintenance Fund
FY13-FY14	$2,332.00	Laws of 2012, Chapter 19, Section 7, Subsections 12-13, Land Maintenance Fund
FY15-FY16	$2,800.00	Laws of 2014, 2nd Special Session, Chapter 63, Section 7, Subsection 15, Land Maintenance Fund. Reauthorization approval was granted for a final extension for $1,335.00 of the Laws of 2010 funds through FY15. Reauthorization approval was granted to extend $2,332.00 of the Laws of 2012 funds through FY16.

LIMS Solution

- PCC Technology Group awarded LIMS contract.
- Hybrid solution is "best of both worlds":
  - Tested Framework with source code provided to Agency
  - Framework stated to handle 60-70% of requirements via configuration; custom development for gap
- Lower cost; potentially lower project risk
- N-Tier architecture conforms to Microsoft .NET/MVC framework principles and supports high availability and scalability

Iterative Phased Approach

Project Timeline



Accomplishments

- **FY11-13**
  - "Buy vs. Build" analysis
  - State Trust Land ownership verified
  - Three initiatives completed for data collection, data cleansing, and scanning and indexing of documents for ownership, conveyance and ROW
  - Developed and prioritized requirements
  - Prepared LIMS RFP and obtained approvals
- **FY14-15**
  - Issued LIMS RFP August 2013 – 5 proposals evaluated
  - RFP Contract Awarded – January 31, 2014
  - IV&V Vendor engaged
  - Secured project special appropriations of $6.8M
  - Reinstated Executive Steering Committee meetings and established project management infrastructure
  - **Project Kick-off March 2014**
  - **Week 31 – 37% complete overall**

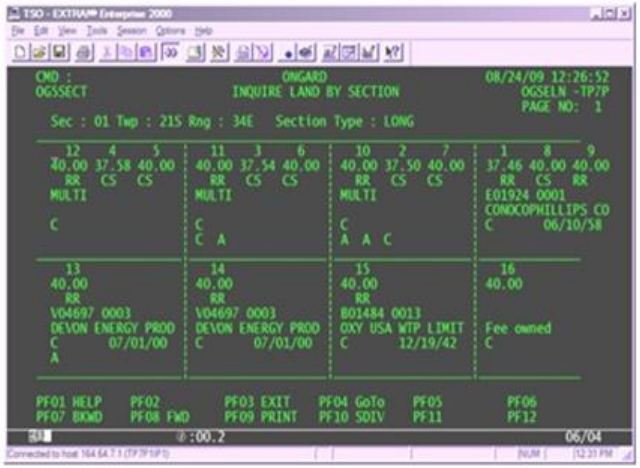
Upcoming Milestones

- Segment 1 Ownership User Acceptance Testing- **10/20 through 11/7**
  - Test Scripts/Scenarios for business functions and integration with ONGARD
  - Traceability back to requirements in RFP
  - Follow-up and Resolution of Issues/Bugs identified
  - Documentation and prioritization of changes requested
- Segment 1 Ownership User Training - **11/17-11/26 (tentative)**
  - 5 sessions of 2 days each?
- Segment 1 Ownership Go-Live
  - **FY15 - 3rd Quarter (January 2015)**
- Segment 2 Lessee, GIS and Digital Tract Books
  - Gap Analysis Document – delivered/in review
  - Data Model – delivered/in review
  - Functional Requirements Document (FRD) – delivered/in review
  - Initiate back-file scanning and quality control plan – delivered/in review
  - **Go-Live FY15 – 4th Quarter**
- Segment 3 Leasing
  - Gap Analysis Document – delivered/in review

Example User Interface

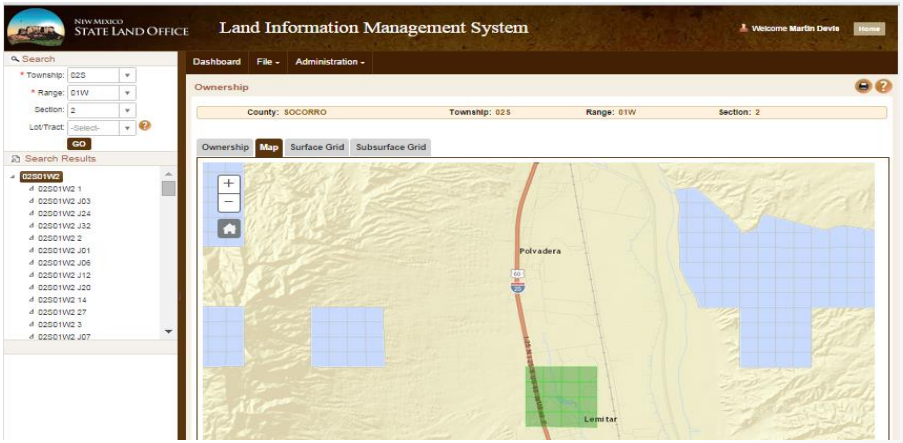
Existing System

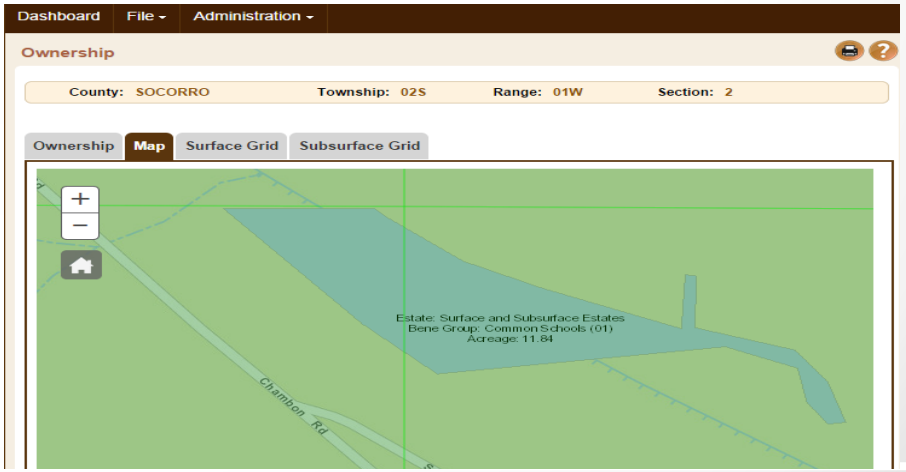
Leases spanning multiple sections require the user to interact with one or more screens for each section. Leases can span hundreds of sections.



In the LIMS GIS, the user can display the entire lease area as well as overlapping and bordering leases and other feature types.

Land Information Management System (LIMS)





LIMS Benefits

- LIMS will provide:
  - Needed functionality for surface and minerals land management and leasing unobtainable in ONGARD.
  - Single access point to land information and improved underlying land grid(bi-direction index between electronic images, leases, and GIS map data).
  - Intuitive and content-rich GIS integration.
  - Improved data integrity and increased staff efficiency resulting in more timely and improved services.
  - Conversion of critical paper records into electronic format.
  - Leverage existing and proven disaster recovery architecture.
  - Land management services and data for other State agencies including TRD and EMNRD/OCD.
  - A foundation for adding on-line constituent services and addressing future evolving business requirements.

Questions